SHARP TROUBLE & ERROR CODES MX-M350N, MX-M350U, MX-M450N, MX-M450U

[11] TROUBLE CODES

1. General

When a trouble occurs in the machine or when the life of a consumable part is nearly expired or when the life is expired, the machine detects and displays it on the display section. This allows the user and the serviceman to take the suitable action. In case of a trouble, this feature notifies the occurrence of a trouble and stops the machine to minimize the damage.

- Securing safety. (The machine is stopped on detection of a trouble.)
- 2) The damage to the machine is minimized. (The machine is stopped on detection of a trouble.)
- By displaying the trouble content, the trouble position can be quickly identified. (This allows to perform an accurate repair, improving the repair efficiency.)
- 4) Preliminary warning of running out of consumable parts allows to arrange for new parts in advance of running out. (This avoids stopping of the machine due to running out the a consumable part.)

2. Trouble codes list

	uble des	Contents	Remark	Trouble detection
C1	00	MC trouble		PCU
E6	11	CSI shading trouble (White correction)	When the scanner is installed	SCANNER
	14	CIS communication trouble	When the scanner is installed	SCANNER
E7	01	System data trouble		ICU
	02	Laser trouble		PCU
	03	HDD trouble	With HDD installed	ICU
	06	Decode error trouble		ICU
	10	Shading trouble (Black correction)	When the scanner is installed	SCANNER
	11	Shading trouble (White correction all pixel adjustment)	When the scanner is installed	SCANNER
	14	CCD communication trouble	When the scanner is installed	SCANNER
	17	SPF scanning position adjustment trouble (Detected only when executing an adjustment SIM.)		
	50	LSU connection trouble		PCU
	60	Controller skating trouble		
	80	Communication trouble (ICU detection) between ICU and scanner	When the scanner is installed	ICU
	90	Communication trouble (ICU detection) between ICU and PCU	When the scanner is installed	ICU
F1	00	Finisher communication trouble	With Finisher installed	PCU
		Mail-bin stacker communication trouble	With Mail bin stacker installed	PCU

Trou cod		Contents	Remark	Trouble detection
F1	02	Finisher transport motor abnormality	With Finisher installed	PCU
		Mail-bin stacker transport motor abnormality	With Mail bin stacker installed	
	03	Console finisher paddle motor trouble	With Console Finisher installed	PCU
	06	Console finisher slide motor trouble	With Console Finisher installed	PCU
	80	Finisher staple shift motor trouble	With Finisher installed	PCU
	10	Finisher stapler motor trouble	With Finisher installed	PCU
		Console finisher stapler motor trouble	With Console Finisher installed	PCU
	11	Finisher bundle exit motor trouble	With Finisher installed	PCU
		Console finisher bundle exit motor trouble	With Console Finisher installed	PCU
	12	Mail-bin stacker gate trouble	With Mail bin stacker installed	PCU
	15	Finisher lift motor trouble	With Finisher installed	PCU
		Console finisher lift motor trouble	With Console Finisher installed	PCU
	19	Finisher front alignment motor trouble	With Finisher installed	PCU
		Console finisher front alignment motor trouble	With Console Finisher installed	PCU
	20	Finisher rear alignment motor trouble	With Finisher installed	PCU
		Console finisher rear alignment motor trouble	With Console Finisher installed	PCU
	30	Console finisher communication trouble	With Console Finisher installed	PCU
	31	Console finisher fold sensor trouble	With Console Finisher installed	PCU
	32	Communication trouble between the console finisher and the punch unit.	With Console Finisher installed	PCU
	33	Console finisher punch side registration motor trouble	With Console Finisher installed	PCU
	34	Console finisher punch motor trouble	With Console Finisher installed	PCU
	35	Console finisher punch side registration sensor trouble	With Console Finisher installed	PCU

Trou	ıble			Trouble
coc		Contents	Remark	detection
F1	36	Console finisher punch	With Console	PCU
		timing sensor trouble	Finisher	
			installed	
	37	Console finisher backup	With Console	PCU
		RAM trouble	Finisher	
			installed	
	38	Console finisher punch	With Console	PCU
		backup RAM trouble	Finisher	
			installed	
	39	Console finisher punch dust	With Console	PCU
		sensor trouble	Finisher	
			installed	
	40	Console finisher punch	With Console	PCU
		power interruption trouble	Finisher	
			installed	
	80	Finisher power abnormality	With Finisher	PCU
			installed	
		Mail-bin stacker power	With Mail bin	PCU
		abnormality	stacker	
	0.1	Concele finishes transport	installed	PCU
	81	Console finisher transport motor abnormality	With Console Finisher	PCU
		Inotor abnormality	installed	
	87	Finisher staple rotation motor	With Finisher	
	07	trouble	installed	
F2	00	Toner control sensor open/		PCU
-	00	sensor trouble		. 00
	02	Toner supply abnormality		PCU
	04	Improper cartridge (life cycle		PCU
		error, etc.)		
	05	CRUM error		PCU
	06	CRUM ID error		PCU
	39	Process thermistor trouble		PCU
F3	12	Machine no. 1 tray lift-up		PCU
		trouble		
	22	Machine tray 2 lift-up trouble	Multi-	PCU
			purpose tray	
F6	00	Communication trouble (ICU	When the	ICU
		detection) between ICU and	Fax board is	
		FAX	installed	
	01	FAX expansion flash memory	When the	ICU
		abnormality (ICU detection)	Fax board is	
			installed	54 1/
	04	FAX modem operation	When the	FAX
		abnormality	Fax board is installed	
	20	EAV write protect concel	When the	FAX
	20	FAX write protect cancel	Fax board is	FAA
			installed	
	21	Combination abnormality of	When the	FAX
	-'	the TEL/LIU PWB and the	Fax board is	
		FAX soft switch	installed	
	97	FAX-BOX skating trouble	When the	FAX
			Fax board is	
			installed	
	98	Combination error of the	When the	FAX
		FAX-BOX destination	Fax board is	
		information and the machine	installed	
		destination information		
F7	01	FAX board EEPROM read/	When the	FAX
		write error	Fax board is	
		The west-town on (1914)	installed	DOLL
110		Thermistor open (HL1)	1	PCU
H2	00	Thermistor open (HL2)		PCU

	uble des	Contents	Remark	Trouble detection
НЗ	00	Fusing section high		PCU
	01	temperature trouble (HL1) Fusing section high		DCII
	01	temperature trouble (HL2)		PCU
H4	00	Fusing section low		PCU
		temperature trouble (HL1)		
	01	Fusing section low		PCU
		temperature trouble (HL2)		
H5	01	5-time continuous POD1 not- reaching jam detection		PCU
L1	00	Scanner feed trouble	When the	SCANNER
		Coarmor rood troubio	scanner is	00/111121
			installed	
L3	00	Scanner return trouble	When the	SCANNER
			scanner is	
L4	01	Main motor lock detection	installed	PCU
L4	02	Drum motor lock detection		PCU
	30	Controller fan motor lock		100
		detection		
L6	10	Polygon motor lock detection		PCU
L8	01	No fullwave signal		PCU
	02	Full wave signal width		PCU
		abnormality	=	
U1	01	FAX battery abnormality	With FAX	Controller
			board installed	
	02	RTC read abnormality	When the	ICU
	-	(common with FAX, on ICU	Fax board is	
		PWB)	installed	
U2	00	EEPROM read/write error		Controller
		(ICU)		0
	11	Counter check sum error (ICU)		Controller
	12	Adjustment value check sum		Controller
		error (ICU)		
	22	SRAM memory check sum		ICU
		error (ICU)		
	23	SRAM memory individual data check sum error (ICU)		
	50	HD section individual data		
	30	check sum error (ICU)		
	80	EEPROM read/write error	When the	SCANNER
		(Scanner)	scanner is	
			installed	
	81	Memory check sum error (Scanner)	When the scanner is	SCANNER
		(Scariner)	installed	
	90	EEPROM read/write error		PCU
		(PCU)		
	91	Memory check sum error		PCU
110		(PCU)	Mari 5	BO::
U6	00	Desk/LCC communication trouble	With Paper feed desk	PCU
		Houbie	installed	
	01	Desk/LCC No. 1 tray lift-up	With Paper	PCU
		trouble	feed desk	
			installed	
	02	Desk No. 2 tray/LCC1 lift-up	With Paper	PCU
		trouble	feed desk	
	03	Desk No. 3 tray/LCC2 lift-up	installed With Paper	PCU
	US	trouble	feed desk	1 00
			installed	
	10	Desk/LCC transport motor	With Paper	PCU
		trouble	feed desk	
		Í.	installed	1

Trou	uble	Contents	Remark	Trouble
COC	des	Contents	nemark	detection
U7	00	RIC communication trouble		Controller
СН		Door open (CH ON)		PCU
	00	No developer cartridge		PCU
	01	No toner cartridge		PCU
	02	No drum cartridge		PCU
EE	EL	Auto developer adjustment	Only during	PCU
		trouble (Over-toner)	DIAG	
	EU	Auto developer adjustment Only during		PCU
		trouble (Under-toner)	DIAG	
PC		Personal counter not		Controller
	installed			
PF		RIC copy inhibit signal is		Controller
		received.		
	-	Auditor not ready		Controller

3. Details of trouble codes

MAIN	SUB		Details
C1	00	Content	MC trouble
		Detail	Main charger output abnormality (Output open) Trouble signal is outputted from the high voltage transformer.
		Cause	The main charger is not installed properly. The main charger is not assembled properly. Disconnection of connector of high voltage transformer. High voltage harness disconnection or breakage.
		Check and remedy	Use the SIM 8-2 to check the main charger output. Check for disconnection of the main charger. Replace the high voltage unit.
E6	11	Content	CSI shading trouble (White correction)
		Details	The CIS white reference plate scan level is abnormal when the lamp is on.
		Cause	Abnormal harness installation to CIS unit Dirt on the white reference plate. CIS lighting error CIS unit installation trouble CIS unit abnormality Scanner PWB abnormality
		Check & Remedy	Clean the white reference plate. Check CIS light quantity (SIM 5-3) and lighting. Check CIS unit harness. Check scanner PWB.
	14	Content	CIS communication trouble
		Details	Communication trouble (clock sync) between scanner PWB and CIS-ASIC
		Cause	Abnormal harness installation to CIS unit CIS unit abnormality Scanner PWB abnormality
		Check & Remedy	Check CIS unit harness. Check CIS unit. Check scanner PWB.

MAIN	SUB		Details
E7	01	Content	System data trouble
		Detail	When in data storage/acquiring of the HDD system area, the HDD responds an error and does not respond for 30sec, it is judged as a trouble.
		Cause	The HDD is not properly installed to the ICU PWB. The HDD does not work for the ICU PWB.
		Check and	ICU PWB abnormality Check installation of the HDD to the
		remedy	ICU PWB. Check harness connection of the HDD from the ICU PWB. Use SIM62-2, 3 to check the HDD read/write.
E7	00	Content	Replace the HDD. Replace the ICU PWB.
⊏/	02	Content	Laser trouble
		Detail Cause	BD signal from LSU is kept OFF, or ON. The connector of LSU or the harness in LSU is disconnected or broken. The polygon motor does not rotate normally. The laser home position sensor in LSU is shifted. The proper voltage is not supplied to the power line for laser. Laser emitting diode trouble PCU PWB trouble ICU PWB trouble
		Check and remedy	Check for disconnection of the LSU connector. Use SIM 61-1 to check LSU operation. Check that the polygon motor rotates normally or not. Check light emission of laser emitting diode. Replace the LSU unit. Replace the PCU PWB. Replace the ICU PWB.
	03	Content	HDD trouble
		Detail	HDD connection failure If the HDD responds an error or does not respond for 30sec, it is judged as an error. (Other than the system area) Data abnormality in the file management area (when the cluster chain is broken)
		Cause	HDD is not installed properly to the ICU PWB. HDD does not operate properly in the ICU PWB. ICU PWB trouble
		Check and remedy	Check installation of HDD to the ICU PWB. Check connection of the harness of HDD to the ICU PWB. Use SIM 62-2, -3 to check read/write of HDD. Replace HDD. Replace ICU PWB.

MAIN	SUB		Details
E7	06	Content	Decode error trouble
		Detail	A decode error occurs during making of
			an image.
		Cause	Data error during input from PCI to PM.
			PM trouble
			Data error during image compression/
			transfer.
		Check and	ICU PWB abnormality
		remedy	Check insertion of the PWB. (PCI bus) If the error occurred in a FAX job, check
		Terricay	installation of the FAX PWB.
			For the other cases, check the ICU
			PWB.
			Replace the ICU PWB.
	10	Content	Shading trouble (Black correction)
		Details	CCD black scan level abnormality
			when the copy lamp is off.
		Cause	Abnormal installation of flat cable to
			CCD unit.
			CCD unit abnormality
		Check &	Scanner PWB abnormality Check installation of CCD unit flat
		Remedy	cable.
		liciniouy	Check CCD unit.
			Check scanner PWB.
	11	Content	Shading trouble (White correction all
			pixel adjustment)
		Details	CCD white reference plate scan level
			abnormality when the copy lamp is ON.
		Cause	Abnormal installation of flat cable to
			CCD unit.
			Dirt on mirror, lens, white reference
			plate
			Copy lamp lighting abnormality Abnormal installation of CCD unit
			CCD unit abnormality
			Scanner PWB abnormality
		Check &	Clean mirror, lens, and white reference
		Remedy	plate.
			Check copy lamp light quantity (SIM 5-
			3) and lighting.
			Check CCD unit.
			Check scanner PWB.
	14	Content	CCD communication trouble
		Details	Communication trouble (clock sync)
		Cauca	between scanner PWB and CCD-ASIC Abnormal installation of harness to
		Cause	CCD unit
			CCD unit abnormality
			Scanner PWB abnormality
		Check &	Check CCD unit harness.
		Remedy	Check CCD unit.
			Check scanner PWB.
	17	Content	SPF scanning position adjustment
			trouble (Detected only when executing
			an adjustment SIM.)
		Details	The black Mylar which serves as the
			reference of the SPF scanning position
			is not detected.
		Cause	Black Mylar installing failure on the SPF side
		Check &	
		Remedy	Check the SPF black Mylar.
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MAIN	SUB		Details
F1	00	Content	Mail-bin stacker communication trouble
		Detail	Communication cable test error after turning on the power or exiting from SIM. Communication error with the Mail-bin
			stacker.
		Cause	Improper connection or disconnection of connector and harness between the machine and the Mail-bin stacker. Mail-bin stacker control PWB trouble Control PWB (PCU) trouble Malfunction by noises
		Check and	Canceled by turning OFF/ON the
		remedy	power. Check harness and connector in the
			communication line. Replace the Mail-bin stacker PWB or PCU PWB.
	02	Content	Finisher transport motor abnormality
		Detail	Transport motor drive trouble
		Cause	Motor lock
			Drive abnormality
			Defective connection or disconnection
			between the PWB and the motor. Motor RPM abnormality
			Overcurrent to the motor
			Finisher control PWB trouble
		Check and	Use SIM 3-3 to check the transport
		remedy	motor operation.
	02	Content	Mail-bin stacker transport motor abnormality
		Detail	Transport motor trouble
		Cause	Motor lock
			Drive abnormality Defective connection or disconnection
			between the PWB and the motor.
			Motor rpm abnormality
			Overcurrent to the motor Mail-bin stacker control PWB trouble
		Check and	Use SIM3-21 to check the transport
		remedy	motor operation.
	03	Content	Console finisher paddle motor trouble
		Detail	Paddle motor operation abnormality
		Cause	Motor lock
			Motor rpm abnormality
			Overcurrent to the motor Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.
	06	Content	Console finisher slide motor trouble
		Detail	Slide motor operation abnormality
		Cause	Motor lock
			Motor rpm abnormality
			Overcurrent to the motor Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.

MAIN	SUB		Details
F1	08	Content	Finisher staple shift motor trouble
		Detail	Staple motor drive trouble
		Cause	Motor lock
			Drive abnormality
			Defective connection or disconnection
			between the PWB and the motor.
			Home position sensor abnormality Motor rpm abnormality
			Finisher control PWB trouble
		Check and	Use SIM3-3 to check operations of the
		remedy	staple motor.
	10	Content	Finisher stapler motor trouble
		Detail	Stapler motor operation abnormality
		Cause	Motor lock
			Defective connection or disconnection
			between the PWB and the motor.
			Home position sensor abnormality
			Motor rpm abnormality
			Overcurrent to the motor Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.
	10	Content	Console finisher stapler motor trouble
		Detail	Stapler motor operation abnormality
		Cause	Motor lock
			Motor rpm abnormality
			Overcurrent to the motor
			Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.
	11	Content	Finisher bundle exit motor trouble
		Detail	Bundle exit motor operation abnormality
		Cause	Motor lock
		Cause	Drive abnormality
			Defective connection or disconnection
			between the PWB and the motor.
			Home position sensor abnormality
			Motor rpm abnormality
			Console finisher control PWB trouble
		Check and	Use SIM 3-3 to check the bundle exit
		remedy	motor operation and the paddle solenoid operation, or use SIM 3-2 to
			check the boomerang rotations sensor.
	11	Content	Console finisher bundle exit motor
			trouble
		Detail	Bundle exit motor operation
			abnormality
		Cause	Motor lock
			Motor rpm abnormality
			Overcurrent to the motor Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.
	12	Content	Mail-bin stacker gate trouble
		Detail	Gate operation abnormality
		Cause	Gate lock
			Defective connection or disconnection
			between the PWB and the solenoid.
			Mail-bin stacker control PWB trouble
		Check and	Use SIM3-21 to check the transport
		remedy	gate operation.

MAIN	SUB		Details
F1	15	Content	Finisher lift motor trouble
		Detail	Lift motor operation abnormality
		Cause	Motor lock
			Motor rpm abnormality Overcurrent to the motor
			Finisher control PWB trouble
		Check and	Use SIM3-3 to check the lift motor
		remedy	operation.
	15	Content	Console finisher lift motor trouble
		Detail	Lift motor operation abnormality
		Cause	Motor lock
			Drive abnormality
			Defective connection or disconnection
			between the PWB and the motor. Upper/lower limit sensor trouble
			Motor rpm abnormality
			Overcurrent to the motor
			Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.
	19	Content	Finisher front alignment motor trouble
		Detail	Front alignment motor operation abnormality
		Cause	Motor lock
		Oddoc	Drive abnormality
			Defective connection or disconnection
			between the PWB and the motor.
			Home position sensor abnormality
			Motor rpm abnormality Finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.
	19	Content	Console finisher front alignment motor trouble
		Detail	Front alignment motor operation abnormality
		Cause	Motor lock
			Motor rpm abnormality
			Overcurrent to the motor
		Check and	Console finisher control PWB trouble Use SIM3-3 to check the motor
		remedy	operation.
	20	Content	Finisher rear alignment motor trouble
		Detail	Rear alignment motor operation
			abnormality
		Cause	Motor lock
			Drive abnormality Defective connection or disconnection
			between the PWB and the motor.
			Home position sensor abnormality
			Motor rpm abnormality
			Finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
	20	remedy Content	operation.
	20		Console finisher rear alignment motor trouble
		Detail	Rear alignment motor operation abnormality
		Cause	Motor lock
			Motor rpm abnormality Overcurrent to the motor
			Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.

MAIN	SUB		Details
F1	30	Content	Console finisher communication
			trouble
		Detail	Communication cable test error after
			turning on the power or exiting from
			SIM. Communication error with the console
			finisher
		Cause	Improper connection or disconnection
			of connector and harness between the
			machine and the console finisher.
			Console finisher control PWB trouble
			Control PWB (PCU) trouble Malfunction by noises
		Check and	Canceled by turning OFF/ON the
		remedy	power.
			Check connectors and harness in the
			communication line.
			Replace the console finisher control PWB or PCU PWB.
	31	Content	Console finisher fold sensor trouble
	31	Detail	Sensor input value abnormality
		Cause	Sensor breakage
			harness breakage
			Console finisher control PWB trouble
		Check and	Use SIM3-2 to check the sensor
		remedy	operation.
	32	Content	Communication trouble between the console finisher and the punch unit.
		Detail	Communication err between the
		Dotaii	console finisher and the punch unit.
		Cause	Improper connection or disconnection
			of connector and harness between the
			console finisher and the punch unit.
			Console finisher control PWB trouble Control PWB (PCU) trouble
			Malfunction by noise
		Check and	Canceled by turning OFF/ON the
		remedy	power.
			Check connectors and harness in the
			communication line. Replace the console finisher control
			PWB.
	33	Content	Console finisher punch side
			registration motor trouble
		Detail	Punch side registration motor operation
		Cause	abnormality Motor lock
		Jause	Motor rpm abnormality
			Overcurrent to the motor
			Console finisher control PWB trouble
_		Check and	Use SIM3-3 to check the motor
	0.4	remedy	operation.
	34	Content Detail	Console finisher punch motor trouble Punch motor operation abnormality
		Cause	Motor lock
		Judge	Motor rpm abnormality
			Overcurrent to the motor
			Console finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
	35	remedy	operation. Console finisher punch side
	33	Joneth	registration sensor trouble
		Detail	Sensor input value abnormality
		Cause	Sensor breakage
			Harness disconnection
			Console finisher control PWB trouble
		Check and	Use SIM3-2 to check the sensor
		remedy	operation.

MAIN SUB Details
trouble Detail Sensor input value abnormality Cause Sensor breakage Harness disconnection Console finisher control PWB trouble Check and remedy 37 Content Console finisher backup RAM trouble Detail Backup RAM contents are disturbed. Cause Console finisher control PWB trouble Malfunction by noise Check and remedy PWB. 38 Content Console finisher punch backup RAM trouble Detail Punch unit backup RAM contents are disturbed. Cause Punch control PWB trouble Malfunction by noise Check and Replace the console finisher control PWB. Cause Punch control PWB trouble Malfunction by noise Check and Replace the punch control PWB. remedy 39 Content Console finisher punch dust sensor trouble Detail Punch dust sensor detection trouble Cause When the punch dust sensor is not normally detected. Check and remedy Harness disconnection Punch control PWB trouble 40 Content Console finisher punch power interruption trouble Detail When power interruption of the punch unit is detected Cause Though 24V is supplied to the punch unit, the punch unit detects power interruption. Check and remedy Punch control PWB trouble 80 Content Finisher power abnormality Detail The 24V power is not supplied to the finisher PWB. Cause Improper connection or disconnection of connector and harness Finisher control PWB trouble Power unit trouble Check and Use SIM3-2 to check the sensor.
Cause Sensor breakage Harness disconnection Console finisher control PWB trouble Detail Backup RAM contents are disturbed. Cause Console finisher control PWB trouble Malfunction by noise Check and remedy PWB. 38 Content Console finisher punch backup RAM trouble Detail Punch unit backup RAM contents are disturbed. Cause Console finisher punch backup RAM trouble Malfunction by noise Check and remedy PWB. 38 Content Console finisher punch backup RAM trouble Punch unit backup RAM contents are disturbed. Cause Punch control PWB trouble Malfunction by noise Check and remedy Replace the punch control PWB. 39 Content Console finisher punch dust sensor trouble Detail Punch dust sensor detection trouble Cause When the punch dust sensor is not normally detected. Check and remedy Harness disconnection Punch control PWB trouble Console finisher punch power interruption trouble Detail When power interruption of the punch unit is detected Cause Though 24V is supplied to the punch unit, the punch unit detects power interruption. Check and remedy Punch control PWB trouble Router interruption. Check and Harness disconnection Punch control PWB trouble Punch control PWB trouble 80 Content Finisher power abnormality The 24V power is not supplied to the finisher PWB. Cause Improper connection or disconnection of connector and harness Finisher control PWB trouble Power unit trouble Check and Use SIM3-2 to check the sensor.
Harness disconnection Console finisher control PWB trouble Use SIM3-2 to check the sensor operation. 37 Content Detail Backup RAM contents are disturbed. Cause Console finisher control PWB trouble Malfunction by noise Check and remedy Detail Punch unit backup RAM contents are disturbed. Cause Punch control PWB trouble Malfunction by noise Check and Replace the console finisher control PWB. 38 Content Console finisher punch backup RAM trouble Detail Punch unit backup RAM contents are disturbed. Cause Punch control PWB trouble Malfunction by noise Check and remedy 39 Content Console finisher punch dust sensor trouble Detail Punch dust sensor detection trouble Cause When the punch dust sensor is not normally detected. Check and remedy Harness disconnection Punch control PWB trouble Console finisher punch power interruption trouble Console finisher punch of the punch unit is detected Console finisher punch power interruption of the punch unit is detected Cause Though 24V is supplied to the punch unit, the punch unit detects power interruption. Check and Harness disconnection Punch control PWB trouble Content Finisher power abnormality Detail The 24V power is not supplied to the finisher PWB. Cause Improper connection or disconnection of connector and harness Finisher control PWB trouble Check and remedy Use SIM3-2 to check the sensor.
Console finisher control PWB trouble Check and remedy Operation. 37 Content Console finisher backup RAM trouble Detail Backup RAM contents are disturbed. Cause Console finisher control PWB trouble Malfunction by noise Check and remedy PWB. 38 Content Console finisher punch backup RAM trouble Detail Punch unit backup RAM contents are disturbed. Cause Punch control PWB trouble Malfunction by noise Check and remedy 39 Content Console finisher punch dust sensor trouble Detail Punch dust sensor detection trouble Cause When the punch dust sensor is not normally detected. Check and remedy 40 Content Console finisher punch power interruption trouble Detail When power interruption of the punch unit is detected Cause Though 24V is supplied to the punch unit, the punch unit detects power interruption. Check and remedy Punch control PWB trouble 80 Content Finisher power abnormality Detail The 24V power is not supplied to the enwedy enwer unit trouble Check and remedy Use SIM3-2 to check the sensor.
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Cause Improper connection or disconnection
of connector and harness
Mail-bin stacker control PWB trouble
Power unit trouble
Check and Use SIM3-20 to check the sensor
remedy operation.
81 Content Console finisher transport motor abnormality
Detail Transport motor trouble
Cause Motor lock
Motor rpm abnormality
Overcurrent to the motor
Console finisher control PWB trouble
Console finisher control PWB trouble Check and Use SIM3-3 to check the motor

MAIN	SUB		Details
F1	87	Content	Finisher staple rotation motor trouble
		Detail	Front staple rotation motor trouble
		Cause	Motor lock
			Drive abnormality
			Defective connection or disconnection
			between the PWB and the motor.
			Home position sensor abnormality
			Motor rpm abnormality
			Overcurrent to the motor
			Finisher control PWB trouble
		Check and	Use SIM3-3 to check the motor
		remedy	operation.
F2	00	Content	Toner control sensor open/sensor
			trouble
		Detail	Toner control sensor output open
		Cause	Connector harness trouble
			Connector disconnection
			Sensor trouble
		Check and	Check connection of the toner control
		remedy	sensor.
			Check connection of connector and
			harness to the main PWB.
			Check for disconnection of harness.
			Replace the sensor.
	02	Content	Toner supply abnormality
		Detail	Toner control sensor output value
			becomes under-toner too earlier.
		Cause	Connector harness trouble
			Toner concentration sensor trouble
			Toner cartridge trouble
		Check and	Check connection of the connector in
		remedy	the toner motor section.
			Check connection of connector and
			harness to the main PWB.
			Check for disconnection of harness.
			Toner concentration sensor output
			check SIM25-1.
			Replace the toner cartridge.
	04	Content	Improper cartridge (life cycle error, etc.)
		Detail	An improper process cartridge is
-			inserted.
		Cause	IC chip trouble
			Improper cartridge
		Check and	Insert a proper cartridge.
		remedy	ORIUM.
	05	Content	CRUM error
		Detail	Communication with IC chip cannot be
			made.
		Cause	IC chip trouble
			IC chip contact failure
		OI :	Improper cartridge
		Check and	Insert a proper cartridge.
		remedy	Is the cartridge installed properly?
	06	Content	CRUM ID error
		Detail	IC chip trouble
		Cause	Improper cartridge
		Check and	Insert a proper cartridge.
		remedy	

MAIN	SUB		Details
F2	39	Content	Process thermistor trouble
	- *	Detail	Output value abnormality of the
			temperature sensor of temperature/
			humidity sensor
		Cause	Temperature/humidity sensor
			abnormality
			Temperature/humidity sensor harness
			connection failure PCU PWB trouble
		Check and	Check connection of the harness and
		remedy	the connector of the temperature/
		Tomody	humidity sensor.
			Replace the temperature/humidity
			sensor.
			Check PCU PWB.
	58	Content	Process humidity sensor breakdown
		Detail	Process humidity sensor open or short
		Cause	Temperature/humidity sensor harness
			connection failure
			Temperature/humidity sensor abnormality
			PCU PWB trouble
		Check and	Check connection of the harness and
		remedy	the connector of the temperature/
			humidity sensor.
			Replace the temperature/humidity
			sensor.
F0	40	0	Check PCU PWB.
F3	12	Content	Machine no. 1 tray lift-up trouble
		Detail	LUD does not turn ON in the specified time.
		Cause	LUD trouble
		Cause	No. 1 tray lift-up trouble
			Check connection of harness between
			the PCVU PWB, lift-up unit, and paper
			feed unit.
		Check and	Check LUD, and their harness and
		remedy	connectors.
F3	22	Content	Check the lift-up unit. Machine tray 2 lift-up trouble
13	22	Detail	MCLUD does not turn ON in the
		Detail	specified time.
		Cause	MCLUD trouble
			No. 2 tray lift-up motor trouble
			Harness disconnection f the PCU
			PWB, the lift-up unit, and the paper
			feed unit.
		Check and	Check MCLUD, and their harness and
		remedy	connectors. Check the lift-up unit.
F6	00	Content	Communication trouble (ICU detection)
	50	Jonton	between ICU and FAX
		Details	Communication establishment error/
			Fleming/Parity/Protocol error
		Cause	Slave unit PWB connector
			disconnection
			Harness abnormality between slave
			unit PWB and ICU PWB. Slave unit PWB mother board
			connector pin breakage
			Slave unit ROM abnormality/No ROM/
			Reverse insertion of ROM/ROM pin
			breakable
		Check &	Check connector harness between
		Remedy	slave unit PWB and ICU PWB.
			Check grounding of machine.
			Check slave unit PWB ROM.

MAIN	SUB		Details
F6	01	Content	FAX expansion flash memory
			abnormality (ICU detection)
		Details	Flash memory cannot be deleted.
		Cause	Flash memory cannot be deleted.
		Check &	Check the FAX image storage Flash
		Remedy	memory.
			Use SIM 66-10 to clear the flash memory.
ŀ	04	Content	FAX modem operation abnormality
	٠.	Details	FAX PWB modem chip operation
			abnormality
		Cause	Modem chip operation abnormality in
			FAX PWB
		Check & Remedy	Replace FAX PWB.
	20	Content	FAX write protect cancel
		Detail	The write protect JP is released.
		Cause	The write protect JP is set to "write
			allow."
			FAX interface PWB trouble FAX PWB trouble
		Check and	Check the write protect JP.
		remedy	Replace the FAX PWB. Replace the
		,	FAX interface PWB.
	21	Content	Combination abnormality of the TEL/
			LIU PWB and the FAX soft switch
		Detail	Combination abnormality of the TEL/
			LIU PWB and the FAX PWB
			information (soft switch) Or the TEL/LIU PWB is not a new one
			for new MDMC PWB.
		Cause	The destination of the installed TEL/LIU
			PWB differs.
			The FAX PWB information (soft switch)
			differs.
		0	TEL/LIU PWB trouble
		Check and remedy	Check the destination of the TEL/LIU PWB.
_		remedy	Check the FAX PWB information (soft
			switch).
			Replace the TEL/LIU PWB.
	97	Content	FAX-BOX skating trouble
			The FAX-BOX PWB is not one for the
			AR-FX12. (FAX detection)
		Detail	The FAX-BOX MODEM controller is not
		Causa	one for the AR-FX12.
		Cause	The FAX-BOX Modem controller PWB information (hard detection) is not for
			the AR-FX12. (The Modem controller
			PWB for the AR-FX5 or the AR-FX6 is
			used.)
		Check and	Check the FAX-BOX modem controller
		remedy	PWB.
			Replace it with a modem controller PWB for the AR-FX12.
			F VVD IUI (IIIE AN-FA IZ.

MAIN	SUB		Details
F6	98	Content	Combination error of the FAX-BOX destination information and the machine destination information
		Detail	Combination error of the FAX-BOX destination information and the machine destination information
		Cause	Because of improper combination between the destination information stored in the EEPROM on the FAX- BOX PWB and that of the machine (set with SIM 26-6).
		Check and remedy	Check the destination of the FAX-BOX. Check the machine destination with SIM 26-6. Use a proper combination of the machine and the FAX-BOX.
F7	01	Content	FAX board EEPROM read/write error
	•	Details	EEPROM access error (read/write)
		Cause	EEPROM trouble FAX PWB EEPROM access circuit trouble
		Check & Remedy	When replacing the EEPROM, use SIM66-4/5 (Signal send level) and SIM66-14/15/16 (Dial test) for adjustment. However, note that all the soft switches are reset to the initial values. No need to adjust when the PWB is replaced.
H2	00··· HL1	Content	Thermistor open Fusing unit not installed
	01··· HL2	Detail	Thermistor is open. (An input voltage of 2.92V or above is detected.) Fusing unit not installed
		Cause	Thermistor trouble Control PWB trouble Fusing section connector disconnection AC power trouble Fusing unit not installed
		Check and remedy	Check harnesses and connectors from the thermistor to the control PWB. Use SIM14 to clear the self diag display.

MAIN	SUB		Details
НЗ	00··· HL1	Content	Fusing section high temperature trouble
		Detail	The fusing temperature exceeds
	01		242°C. (An input voltage of 0.27V or
	HL2		above is detected.) Fusing temperature control is started.
			and 242°C is detected three or more
			times continuously in sampling in the
			specified interval. (Every 300msec)
		Cause	Thermistor trouble
			Control PWB trouble
			Fusing section connector disconnection
			AC power trouble
		Check and	Use SIM5-2 to check the heater lamp
		remedy	Blinking operation.
			If the heater lamp blinks normally:
			Check the thermistor and its harness.
			Check the thermistor input circuit in
			the control PWB.
			If the heater lamp keep lighting:
			Check the AC PWB and the lamp control circuit in the control PWB.
			Use SIM14 to cancel the trouble
H4	00	Content	Fusing section low temperature trouble
	HL1	Detail	The set temperature is not reached
			within the specified time (3 min) after
	01··· HL2		turning on the power relay, or the
	ΠLZ		temperature does not reach 80°C within 80 sec.
			When the heater lamp is not turned off
			in the specified time (3 min) from
			starting warm-up, or the temperature
			does not reach 80°C within 80 sec. After completion of warm-up operation,
			a temperature 50°C lower than the
			temperature control level is detected 5
			times continuously in sampling in the
			specified interval. (every 300msec)
		Cause	Thermistor trouble Heater lamp trouble
			Control PWB trouble
			Thermostat trouble
			AC power trouble
		06	Interlock switch trouble
		Check and remedy	Use SIM5-2 to check the heater lamp Blinking operation.
		Torriody	If the heater lamp blinks normally:
			Check the thermistor and its
			harness.
			Check the thermistor input circuit in the control PWB.
			If the heater lamp does not light:
			Check for heater lamp disconnection
			and thermostat disconnection.
			Check the interlock switch.
			Check the AC PWB and the lamp control circuit in the control PWB.
			Use SIM14 to cancel the trouble.

MAIN	SUB		Details
H5	01	Content	5-time continuous POD1 not-reaching jam detection
		Detail	5-time continuous POD1 not-reaching
			jam detection
		Cause	A fusing section jam is not properly removed. (Jam paper remains.) POD1 sensor trouble, or harness disconnection
		Check and	Improper installation of fusing unit Check jam paper in the fusing section.
		remedy	(winding, etc.) Check POD1 sensor harness, and check the fusing unit installation. Use SIM14 to cancel the trouble.
L1	00	Content	Scanner feed trouble
		Details	Scanner feed is not completed within the specified time.
		Cause	Scanner unit abnormality Scanner wire disconnection
		Check & Remedy	Check scanning with SIM 1-1.
L3	00	Content	Scanner return trouble
		Details	Scanner return is not completed within the specified time.
		Cause	Scanner unit abnormality
		Check &	Scanner wire disconnection
	0.1	Remedy	Check scanning with SIM 1-1.
L4	01	Content	Main motor lock detection
		Detail	The motor lock signal is detected for 1.5sec during rotation of the main motor.
		Cause	main motor trouble
			Check connection of harness between the PCU PWB and the main motor. Control circuit trouble
		Check and remedy	Use SIM25-1 to check the main motor operation. Check harness and connector between the PCU PWB and the main motor.
	02	Content	Drum motor lock detection
	02	Detail	The motor lock signal is detected for 1.5sec during rotation of the drum
			motor.
		Cause	Drum motor trouble Improper connection of harness between the PCU PWB and the drum motor. Control circuit trouble
		Chook and	Control circuit trouble Use SIM6-1 to check the drum motor
		Check and remedy	operation. Check harness and connector between the PCU PWB and the drum motor.
L			and 1 30 1 110 and the drain motor.

MAIN	SUB		Details
L4	30	Content	Controller fan motor lock detection
		Detail	The motor lock signal is detected during rotation of the controller fan motor. The motor lock signal is detected during rotation of the HDD fan motor.
		Cause	Fan motor trouble Improper connection of the harness between the controller PWB and the fan motor. Control circuit trouble
		Check and remedy	Use SIM 6-2 to check the fan motor operation. Check the harness and the connector between the controller PWB and the fan motor.
L6	10	Content	Polygon motor lock detection
		Detail	It is judged that the polygon motor lock signal is not outputted. Lock signal is checked in the interval of 10sec after starting the polygon motor, and it is judged that the polygon motor does not rotate normally.
		Cause	The LSU connector or harness in the LSU is disconnected or broken. Polygon motor trouble
		Check and remedy	Use SIM61-1 to check the polygon motor operation. Check connector and harness connection. Replace LSU.
L8	01	Content	No fullwave signal
		Detail	Full wave signal is not detected.
		Cause	The PCU PWB connector or the power unit harness is disconnected or broken. PCU PWB trouble 12V power source trouble
		Check and	Check connection of the harness and
		remedy	connector. Replace PCU PWB. Replace the power unit. Replace the controller connection mother board.
	02	Content	Full wave signal width abnormality
		Detail	It is judged as full wave signal frequency abnormality. (When the detection cycle is judged as 69Hz or above or 42.5Hz or below)
		Cause	The connector or harness of the PCU PWB and the power PWB is disconnected. PCU PWB trouble Power unit trouble
		Check and remedy	Check connection of the harness and connector. Replace the PCU PWB. Replace the power unit.

MAIN	SUB		Details
U1	01	Content	FAX battery abnormality
		Detail	FAX backup SRAM battery voltage fall
		Cause	Battery life
		Cause	Battery circuit abnormality
		Chook and	Check that the battery voltage is about
		Check and	, ,
		remedy	2.5V or above. Check the battery circuit.
	00	Contont	-
	02	Content	RTC read abnormality (common with FAX, on ICU PWB)
		D-4-11-	The value read from RTC on ICU PWB
		Details	
		Causa	is [EE]h (abnormal).
		Cause	RTC circuit abnormality
			Battery voltage fall
		Check &	Battery circuit abnormality
			Set the time again with key operation, and check that time advances properly.
		Remedy	Check RTC circuit.
			Check that battery voltage is about
			2.5V or above.
			Check battery circuit.
U2	00	Content	EEPROM read/write error (ICU)
02	00	Detail	EEPROM write error
			EEPROM trouble
		Cause	EEPROM trouble EEPROM is not initialized.
			ICU PWB EEPROM access circuit
			trouble
		Check and	Check that EEPROM is properly
		remedy	inserted.
		remedy	Save the counter/adjustment values
			with the simulation.
			Use SIM16 to cancel U2 trouble.
			Replace the ICU PWB.
U2	11	Content	Counter check sum error (ICU)
		Detail	Counter data area check sum error
		Cause	EEPROM trouble
			Control circuit trouble by noise
			ICU PWB EEPROM access circuit
			trouble
		Check and	Check that EEPROM is properly
		remedy	inserted.
			Save the counter/adjustment values
			with the DIAG simulation.
			Use DIAG (SIM16) to cancel U2
			trouble.
			Replace the ICU PWB.
	12	Content	Adjustment value check sum error
			(ICU)
		Detail	Adjustment data area check sum error
		Cause	EEPROM trouble
			Control circuit trouble by noise
			ICU PWB EEPROM access circuit
			trouble
		Check and	Check that EEPROM is properly
		remedy	inserted.
			Save the counter/adjustment values
			with the simulation.
			Use SIM16 to cancel U2 trouble.
			Replace the ICU PWB.

MAIN	SUB		Details
U2	22	Content	SRAM memory check sum error (ICU)
		Detail	MFPC section SRAM memory check
		2014	sum error
		Cause	SRAM trouble
		Cause	Control circuit runaway due to noises
			ICU PWB SRAM access circuit trouble
		0	
		Check and	Initialize the communication
		remedy	management table registered in the
			SRAM and the FAX soft switch.
			Since the registered data are deleted,
			register the data again.
			Use SIM16 to cancel U2 trouble.
			Replace the ICU PWB.
	23	Content	SRAM memory individual data check
			sum error (ICU)
		Detail	Check sum error for every data in the
			SRAM memory of the MFPC section
			(Communication management table,
			sender registration data, etc.)
		Cause	SRAM trouble
			Control circuit runaway due to noises
			ICU PWB SRAM access circuit trouble
		Check and	Automatically initialize the data related
		remedy	to the check sum error by turning OFF/
			ON the power.
			Since the registered data are deleted,
			register the data again.
			Use SIM16 to cancel U2 trouble.
			Replace the ICU PWB.
U2	50	Content	HD section individual data check sum
02	30	Content	error (ICU)
		Detail	Check sum error for every individual
		Detail	data in HD of the MFPC section (One-
			touch, Group, Program, etc.)
		Cause	HDD write/read error
		Cause	Control circuit runaway due to noises
			-
		Observ	ICU PWB HD access circuit trouble
		Check and	Automatically initialize the data related
		remedy	to the check sum error by turning OFF/
			ON the power.
			Since the registered data are deleted,
			register the data again.
			Use SIM 16 to cancel the U2 trouble.
			Replace the HD PWB.
			Replace the ICU PWB.
	80	Content	EEPROM read/write error (Scanner)
		Details	Scanner EEPROM write error
		Cause	EEPROM abnormality
			Scanner PWB EEPROM access circuit
			abnormality
		Check &	Check that EEPROM is set properly.
		Remedy	Record counter/adjustment values with
1		. ioiiiouy	the simulation to protect the data from
		I	•
			heing deleted
			being deleted.
			being deleted. Cancel U2 trouble with SIM 16. Replace scanner PWB.

MAIN	SUB		Details
U2	81	Content	Memory check sum error (Scanner)
02	01	Details	Scanner memory check sum error
		Cause	EEPROM trouble
		Oddoc	EEPROM which is not initialized is
			installed.
			Control circuit freeze by noises
			Scanner PWB EEPROM access circuit
			trouble
		Check &	Check that EEPROM is set properly.
		Remedy	Record counter/adjustment values with
			the simulation to protect the data from
			being deleted.
			Cancel U2 trouble with SIM 16.
	00	0	Replace scanner PWB.
	90	Content	EEPROM read/write error (PCU)
		Detail	PCU EEPROM write error
		Cause	EEPROM trouble PCU PWB EEPROM access circuit
			trouble
		Check and	Check that EEPROM is properly
		remedy	inserted.
		Tomody	Record counter/adjustment values with
			the simulation to protect the data from
			being deleted.
			Use SIM16 to cancel U2 trouble.
			Replace the Controller PWB.
	91	Content	Memory check sum error (PCU)
		Detail	PCU memory check sum error
		Cause	EEPROM trouble
			EEPROM which is not initialized is
			installed.
			EEPROM is not initialized. PCU PWB EEPROM access circuit
			trouble
			Hang of control circuit due to noises
		Check and	Check that EEPROM is properly
		remedy	inserted.
			Save the counter/adjustment values
			with the simulation.
			Use SIM16 to cancel U2 trouble.
			Replace the Controller PWB.
U6	00	Content	Desk/LCC communication trouble
		Detail	Desk/LCC communication error
			Communication cable test error after turning on the power or exiting SIM.
		Cause	Improper connection or disconnection
		Juuse	of connector and harness
			Desk control PWB trouble
			Control PWB (PCU) trouble
			Noise or interference
		Check and	Canceled by turning OFF/ON the
		remedy	power.
			Check connection of the harness and
	0.1	0	connector in the communication line.
	01	Content	Desk/LCC No. 1 tray lift-up trouble
		Detail	Desk/LCC No. 1 tray lift-up trouble
		Cause	Sensor trouble Tray trouble
			Defective connection or disconnection
			between the PWB and the motor.
			Desk control PWB trouble
			Lift-up motor trouble
		Check and	Use SIM4-2 to check the upper limit
		remedy	sensor detection.
			Use SIM4-3 to check the lift-up motor
			operation.

U6 02 Content Desk No. 2 tray/LCC1 lift-up trouble Detail Desk No. 2 tray/LCC1 lift-up trouble Cause Sensor trouble Tray trouble Defective connection or disconnection between the PWB and the motor. Desk control PWB trouble Lift-up motor trouble Lift-up motor trouble Check and remedy Sensor detection. Use SIM4-2 to check the upper limit sensor detection. Use SIM4-3 to check the lift-up motor operation. 03 Content Desk No. 3 tray/LCC2 lift-up trouble Detail Desk no. 3 tray lift-up trouble Cause Sensor trouble Tray trouble Defective connection or disconnection between the PWB and the motor. Desk control PWB trouble Lift-up motor trouble Lift-up motor trouble Lift-up motor trouble Lift-up motor trouble Check and remedy Sensor detection. Use SIM4-3 to check the upper limit sensor detection. 10 Content Desk/LCC transport motor trouble Detail Desk/LCC transport motor operation trouble Cause Motor lock Drive abnormality Defective connection or disconnection between the PWB and the motor. Motor rpm abnormality Overcurrent to the motor Desk control PWB trouble Check and remedy SIM4-3 to check the transport motor operation. U7 00 Content RIC communication trouble Communication trouble Detail RIC communication trouble Communication cable test error after turning on the power or exiting SIM. Cause Disconnection of connector and harness RTC control PWB trouble Control PWB (ICU) trouble Noise or interference Check and canceled by turning OFF/ON the power. Check connector and harness in the communication line. EE EL Content Auto developer adjustment trouble Charging voltage, developing voltage abnormality Insufficient toner concentration Developing unit trouble Poul PWB trouble Charging voltage, developing voltage abnormality Insufficient toner concentration Developing unit trouble Poul PWB trouble Check and Issueries and SMB-2 to perform auto developer adjustment.	MAIN	SUB		Details
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